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1 Black-box test reduction using input-output analysis   ◼
Patrick J. Schroeder, Bogdan Korel
August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the
International Symposium on Software Testing and Analysis**, Volume 25 Issue 5

Full text available: 📄 pdf(316.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

Test reduction is an important issue in black-box testing. The number of possible black-box
tests for any non-trivial software application is extremely large. For the class of programs
with multiple inputs and outputs, the number of possible tests grows very rapidly as
combinations of input test data are considered. In this paper, we introduce an approach to
test reduction that uses automated input-output analysis to identify relationships between
program inputs and outputs. Our initial ...

Keywords: black-box testing, combinatorial testing, input-output analysis, test reduction

2 A black box approach to the algebraic set decomposition problem   ◼
Ming-Deh A. Huang, Ashwin J. Rao
May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of
computing**
Full text available: 📄 pdf(1.41 MB)   Additional Information: full citation, references, index terms

3 Post-mortem black-box correctness tests for basic parallel data structures   ◼
Phillip B. Gibbons, John L. Bruno, Steven Phillips
June 1999 **Proceedings of the eleventh annual ACM symposium on Parallel algorithms
and architectures**
Full text available: 📄 pdf(1.35 MB)   Additional Information: full citation, references, index terms

4 In black and white: an integrated approach to class-level testing of object-oriented   ◼
programs
Huo Yan Chen, T. H. Tse, F. T. Chan, T. Y. Chen
July 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM),**
Volume 7 Issue 3

Full text available: 📄 pdf(284.99 KB)   Additional Information: full citation, abstract, references, citings, index
terms, review

Because of the growing importance of object-oriented programming, a number of testing
strategies have been proposed. They are based either on pure black-box or white-box

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1 Workshop and conference summaries: The first international workshop on automated   ■
program analysis, testing and verification
John Penix, Nigel Tracey, Willem Visser
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Full text available: 📄 pdf(479.85 KB)   Additional Information: full citation, abstract

This paper reports on the First International Workshop on Automated Program Analysis,
Testing and Verification (WAPATV) held in Limerick on the 4th-5th June 2000, as part of the
International Conference on Software Engineering 2000. We begin by presenting an
overview of the workshop aims and then focus on the workshop's technical program.

2 Implementation aspects of a SPARC V9 complete machine simulator   ▬
Bill Clarke, Adam Czezowski, Peter Strazdins
January 2002 **Australian Computer Science Communications , Proceedings of the
twenty-fifth Australasian conference on Computer science - Volume 4**,
Volume 24 Issue 1

Full text available: 📄 pdf(1.33 MB)   Additional Information: full citation, abstract, references, index terms

In this paper we present work in progress in the development of a complete machine
simulator for the UltraSPARC, an implementation of the SPARC V9 architecture. The
complexity of the UltraSPARC ISA presents many challenges in developing a reliable and yet
reasonably efficient implementation of such a simulator. Our implementation includes a
heavily object-oriented design for the simulator modules and infrastructure, caching of
repeated computations for performance, adding an OS (system call) emu ...

Keywords: SMP, SPARC V9 ISA, UltraSPARC, complete machine simulator, execution-
driven simulation, object-oriented design

3 The Flux OSKit: a substrate for kernel and language research   ▬
Bryan Ford, Godmar Back, Greg Benson, Jay Lepreau, Albert Lin, Olin Shivers
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth
ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available: 📄 pdf(2.47 MB)   Additional Information: full citation, references, citings, index terms

4 Self-testing/correcting with applications to numerical problems   ▬
M. Blum, M. Luby, R. Rubinfeld
April 1990 **Proceedings of the twenty-second annual ACM symposium on Theory of
computing**

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1 **On the effectiveness of mutation analysis as a black box testing technique**
Murnane, T.; Reed, K.;
Software Engineering Conference, 2001. Proceedings. 2001 Australian , 27-28 Aug. 2001
Pages:12 - 20

[Abstract]   [PDF Full-Text (824 KB)]   **IEEE CNF**

2 **Black-box understanding of COTS components**
Korel, B.;
Program Comprehension, 1999. Proceedings. Seventh International Workshop on , 5-7 May 1999
Pages:92 - 99

[Abstract]   [PDF Full-Text (80 KB)]   **IEEE CNF**

3 **A successful black box design : digital regulation of deposited zinc in hot-dip galvanizing at Sollac Florange**
Fenot, C.; Rolland, F.; Vigneron, G.; Landau, L.D.;
Control Applications, 1993., Second IEEE Conference on , 13-16 Sept. 1993
Pages:101 - 106 vol.1

[Abstract]   [PDF Full-Text (348 KB)]   **IEEE CNF**

4 **Higher order sliding: differentiation and black-box control**
Levant, A.;
Decision and Control, 2000. Proceedings of the 39th IEEE Conference on , Volume: 2 , 12-15 Dec. 2000
Pages:1703 - 1708 vol.2

[Abstract]   [PDF Full-Text (496 KB)]   **IEEE CNF**

5 **Using nonlinear black-box models in fault detection**

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1 **Merging state-based and action-based verification**
Hansen, H.; Virtanen, H.; Valmari, A.;
Application of Concurrency to System Design, 2003. Proceedings. Third International Conference on , 18-20 June 2003
Pages:150 - 156

[Abstract]   [PDF Full-Text (475 KB)]   **IEEE CNF**

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2 **The Television Transmission Division of Pye**
Ellis, R.J.G.;
UK Broadcast Manufactuerers - The Pioneering Years (Digest No: 1997/106), IEE Colloquium on , 5 March 1997
Pages:4/1 - 417

[Abstract]   [PDF Full-Text (2448 KB)]   **IEE CNF**

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3 **Tsinghua-1 Micro-satellite power system architecture and design**
Wu Zhifei; You Zheng; Salvignol, J.;
Power Electronics and Motion Control Conference, 2000. Proceedings. PIEMC 2000. The Third International , Volume: 3 , 15-18 Aug. 2000
Pages:1045 - 1049 vol.3

[Abstract]   [PDF Full-Text (368 KB)]   **IEEE CNF**

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4 **Development of the TACCIMS video tactical interface (TVTI). Extending video to the battlefield**
Wronko, M.; Hersh, J.; Dwulet, F.;
Military Communications Conference, 1995. MILCOM '95, Conference Record, IEEE , Volume: 1 , 5-8 Nov. 1995
Pages:50 - 54 vol.1

[Abstract]   [PDF Full-Text (484 KB)]   **IEEE CNF**

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1 New test methods targeting non-classical faults: A novel wavelet transform based ■
transient current analysis for fault detection and localization
Swarup Bhunia, Kaushik Roy, Jaume Segura
June 2002 **Proceedings of the 39th conference on Design automation**

Full text available: 📄 pdf(206.90 KB)   Additional Information: full citation, abstract, references, index terms

Transient current (IDD) based testing has been often cited and investigated as an
alternative and/or supplement to quiescent current (IDDQ) testing. While the potential of
IDD testing for fault detection has been established, there is no known efficient method for
fault diagnosis using IDD analysis. In this paper, we present a novel integrated method for
fault detection and localization using wavelet transform based IDD waveform analysis. The
time-frequency resolution property of wavelet transfo ...

Keywords: fault localization, transient current (IDD), wavelet transform

2 Technical papers: program analysis: Visualization of test information to assist fault ■
localization
James A. Jones, Mary Jean Harrold, John Stasko
May 2002 **Proceedings of the 24th international conference on Software engineering**

Full text available: 📄 pdf(1.45 MB)   Additional Information: full citation, abstract, references, citings, index terms

One of the most expensive and time-consuming components of the debugging process is
locating the errors or faults. To locate faults, developers must identify statements involved
in failures and select suspicious statements that might contain faults. This paper presents a
new technique that uses visualization to assist with these tasks. The technique uses color to
visually map the participation of each program statement in the outcome of the execution of
the program with a test suite, consisting ...

3 Generalized algorithmic debugging and testing ■
Peter Fritzson, Nahid Shahmehri, Mariam Kamkar, Tibor Gyimothy
December 1992 **ACM Letters on Programming Languages and Systems (LOPLAS)**, Volume
1 Issue 4

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This paper presents a method for semi-automatic bug localization, generalized algorithmic
debugging, which has been integrated with the category partition method for functional
testing. In this way the efficiency of the algorithmic debugging method for bug localization
can be improved by using test specifications and test results. The long-range goal of this
work is a semi-automatic debugging and testing system which can be used during large-

scale program development of nontrivial programs. ...

Keywords: algorithmic debugging, automated debugging, category partition testing, program slicing

4 <u>Debugging and finding faults: End-user software visualizations for fault localization</u>
J. Ruthruff, E. Creswick, M. Burnett, C. Cook, S. Prabhakararao, M. Fisher, M. Main
June 2003 **Proceedings of the 2003 ACM symposium on Software visualization**

Full text available: <u>pdf(359.07 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

End-user programming has become the most common form of programming today. However, despite this growth, there has been little investigation into bringing the benefits of software visualization to end-user programmers. Evidence from the spreadsheet paradigm, probably the most widely used end-user environment, reveals that end users' programs often contain faults. We would like to integrate software visualization into these end-user environments to help end users deal with the reliability issues ...

Keywords: end-user programming, end-user software engineering, end-user software visualization, fault localization, spreadsheets

5 <u>Generalized algorithmic debugging and testing</u>
Peter Fritzson, Tibor Gyimothy, Mariam Kamkar, Nahid Shahmehri
May 1991 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1991 conference on Programming language design and implementation**, Volume 26 Issue 6
Full text available: <u>pdf(1.00 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

6 <u>Efficient error detection, localization, and correction for FPGA-based debugging</u>
John Lach, William H. Mangione-Smith, Miodrag Potkonjak
June 2000 **Proceedings of the 37th conference on Design automation**

Full text available: <u>pdf(86.05 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Simulations for modern designs are often performed on Field Programmable Gate Array technology in a functional test and debugging process known as emulation, allowing for more complex simulations than possible in software. One drawback to emulation is the lengthy time spent in the back-end CAD tools for each debugging iteration, including debugging changes and the introduction of control and observation logic. We have developed a technique that confines the re-place-and-route area to only t ...

7 <u>A hierarchical approach to program testing</u>
Janusz W. Laski
January 1980 **ACM SIGPLAN Notices**, Volume 15 Issue 1

Full text available: <u>pdf(999.84 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

A real-environment interactive testing procedure is presented which is based upon a hierarchical decomposition of a program into levels of abstraction. Such a decomposition is defined in terms of a program model which involves both control and data flow. The testing strategy adopted is supposed to follow a typical progress of a programmer who carries out a series of experiments with his program. Several semantical and structural issues involved are discussed.

Keywords: (in)correctness, control flow, data dependency, data flow, design errors, detection, error invariance level, level of abstraction, localization, nontermination, secondary errors, test

8 <u>A linear-time algorithm for testing the inscribability of trivalent polyhedra</u>

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1 A pragmatic set operation and its implementation in C   ▬

Tom Bennet

April 1992   **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

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